AMENDMENT TO THE CLAIMS

Please amend the claims as follows:

1. (currently amended) A compound of formula I below, and physiologically acceptable salts, comprising:

wherein,

the "A" ring atoms of compound formula I comprise carbon and 0 to 2 nitrogen heteroatoms;

Ar is an aromatic ring, an aromatic ring comprising at least one substituent group, a heteroaromatic ring, a heteroaromatic ring comprising 1 to 5 substituent groups, a heterocyclic ring or a heterocyclic ring comprising at least one substituent group;

R comprises is selected from H, OH, OCH₃, alkoxy, OCH₂CH₂OH, alcohol, NH₂, PO₃H, OPO₃H, OSO₃H, halogen, C(halogen)₃, SE₁, OE₁ or and NE₁E₂,

 E_1 and E_2 are each independently H or alkyl;

R' comprises is selected from H, OH, alkoxy, OCH₂CH₂OH, alcohol, NH₂, PO₃H, OPO₃H, OSO₃H, halogen, C(halogen)₃, SE₁, OE₁ or and NE₁E₂,

E₁ and E₂ are each independently H or alkyl;

R"[[,]] R" and R"" each independently comprises is Y-D₁-D₂-T₂, H, halogen, alkyl, alkoxy or a substituent group,

Y is optionally present and if present comprises is selected from O, S, NH, N-alkyl, C=CH, C≡C, CH₂, CH(CH₃) CH(CH₃), C(CH₃)₂, a carbocyclic ring having 4

to 6 ring members or and a heterocyclic ring having 4 to 6 ring members with 1 or 2 heteroatoms,

D₁ is optionally present and if present comprises is alkyl,

D₂ comprises is selected from H, alkyl, NH, N-alkyl, O-alkyl, S-alkyl, a carbocyclic ring, a bicyclic ring, a tricyclic ring, an aromatic ring or and a heteroaromatic ring,

T₂ is optionally present and if present comprises <u>is selected from</u> an aromatic ring, a substituted aromatic ring, a heteroaromatic ring, a substituted heteroaromatic ring, a heterocyclic ring, a substituted heterocyclic ring, H, OH, halogen, er <u>and</u> a substituent group;

R''' and R'''' are each independently selected from H, halogen, alkyl, alkoxy and a substituent group;

with the proviso that,

when Ar is 4-isopropyl pyridine or 4-isopropenyl pyridine, R" is hydrogen, and R"" is hydrogen, then R" can not be a straight or branched saturated alkyl having 1 to 20 carbon atoms;

when Ar is 4-isopropyl toluene or 4-isopropenyl toluene, and both R" and R" are hydrogen, R" can not be a straight or branched saturated alkyl having 1 to 20 carbon atoms;

when R" is $C(CH_3)_2(CH_2)_5CH_3$, R₂ and R₄ are methyl, then R' and R" can not be H, OH or OCH₃.

2. cancelled

3. (currently amended) The compound of claim 1 wherein:

R''' comprises is selected from H, halogen, C(halogen)₃, lower alkyl or and alkoxy;

R'''' comprises is selected from H, halogen, C(halogen)₃, lower alkyl or and alkoxy; and

R" comprises is selected from -Y-D₁-D₂-T₂,

Y comprises is selected from C(CH₃)₂, CH₂ or and CH(CH₃),

D₁ is optionally present and if present comprises is alkyl,

 D_2 comprises is selected from H, an alkyl, NH, N-alkyl, O-alkyl, S-alkyl, a carbocyclic ring, a bicyclic ring, a tricyclic ring, an aromatic ring of and a heteroaromatic ring,

 T_2 is optionally present and if present comprises is selected from an aromatic ring, a heteroaromatic ring, a heterocyclic ring, H, OH, halogen or and a substituent group.

4. (currently amended) The compound of claim 1 wherein:

R''' comprises is selected from H, halogen, C(halogen)₃, lower alkyl or and alkoxy;

R"" comprises is selected from H, halogen, C(halogen)₃, lower alkyl or and alkoxy; and

R" comprises is -Y-D₁-D₂-T₂,

Y comprises is selected from O, NH or and N-alkyl,

D₁ is optionally present and if present comprises is alkyl,

 D_2 comprises is selected from H, an alkyl, NH, N-alkyl, O-alkyl, S-alkyl, a carbocyclic ring, a bicyclic ring, a tricyclic ring, an aromatic ring of and a heteroaromatic ring,

 T_2 is optionally present and if present comprises is selected from an aromatic ring, a heteroaromatic ring, a heterocyclic ring, H, OH, halogen or and a substituent group.

5. (currently amended) The compound of claim 1 wherein:

R" comprises is selected from H, halogen, C(halogen)₃, lower alkyl or and alkoxy;

R"" comprises is selected from H, halogen, C(halogen)₃, lower alkyl of and alkoxy; and

R" comprises is -Y-D₁-D₂-T₂,

Y is optionally present and if present comprises is selected from C=CH or and C≡C,

D₁ is optionally present and if present comprises is alkyl,

 D_2 comprises is selected from H, alkyl, NH, N-alkyl, O-alkyl, S-alkyl, a carbocyclic ring, a bicyclic ring, a tricyclic ring, an aromatic ring or and a heteroaromatic ring,

T₂ is optionally present and if present comprises <u>is selected from</u> an aromatic ring, a heteroaromatic ring, a heterocyclic ring, H, OH, halogen or <u>and</u> a substituent group.

6. (currently amended) The compound of claim 1 wherein:

R" comprises is selected from H, halogen, C(halogen)₃, lower alkyl or and alkoxy;

R"" comprises <u>is selected from</u> H, halogen, C(halogen)₃, lower alkyl <u>or and</u> alkoxy; and

R" comprises is $-Y-D_1-D_2-T_2$,

Y comprises is optionally present and if present is selected from 0 to 1 of a carbocyclic ring having 4 to 6 ring members or and a heterocyclic ring having 4 to 6 ring members with 1 or 2 heteroatoms.

D₁ is optionally present and if present comprises is alkyl,

 D_2 comprises is selected from H, alkyl, NH, N-alkyl, O-alkyl, S-alkyl, a carbocyclic ring, a bicyclic ring, a tricyclic ring, an aromatic ring of and a heteroaromatic ring,

 T_2 is optionally present and if present comprises is selected from an aromatic ring, a heteroaromatic ring, a heterocyclic ring, H, OH, halogen or and a substituent group.

7. (currently amended) The compound of claim 1 wherein Ar comprises is selected from an aromatic ring having 5 or 6 ring members or and a heteroaromatic ring having 5 or 6 ring members.

8. (currently amended) The compound of claim 1 wherein Ar comprises <u>is selected</u> from one of the structures:

and,

the Ar aromatic ring structure comprises 0 to 3 heteroatoms as ring members;

R1, R2, R3, R4 and R5 <u>are</u> each independently <u>comprise</u> <u>selected from</u> H, OH, NH₂, halogen, N₃, NO₂, NCS, C(halogen)₃, CHO, OAc, OCH₃, OC₂H₅, CH₂OH, CH₂CH₂OH, CN, C(=O)CH₃, COOH, COOCH₃, COOC₂H₅, COOCH(CH₃)₂, NHCOCH₃, SCH₃, SC₂H₅, NHCH₃, CH₂NH₂, CH₃, C₂H₅, C₃H₇, C₂H₃, ethynyl, alkoxy, alkylmercapto, alkylamino, di-alkylamino, alkylsulfinyl, alkylsulfonyl, or methylene dioxy of <u>and</u> a substituent group.

9. (currently amended) The compound of claim 1 wherein Ar comprises is selected from 1-, 2- or 3-pyrrolidinyl, 1-, 2-, 3- or 4-piperidinyl, 1-, 2- or 3-morpholinyl, 1-, 2- or 3-thiomorpholinyl, 1-, 2- or 3- azetidinyl, 1-, or 2-piperazinyl, 2- or 3-tetrahydrofuranyl; or any above group substituted on any available ring carbon thereof by alkyl; or any above group unsubstituted on one or more nitrogen atoms, or any above group substituted on one or more nitrogen atoms independently by an alkyl, benzyl, lower-alkoxybenzyl or benzhydryl group; adamantyl; a carbocyclic ring, a substituted carbocyclic ring, a heteroaromatic ring, a substituted heteroaromatic ring, a heterobicyclic ring, a substituted heterobicyclic ring, a substituted polycyclic ring, a heteropolycyclic ring or a substituted heteropolycyclic ring.

10. (currently amended) The compound of claim 1 wherein Ar comprises is selected from:

G comprises is selected from H, OH, NH₂, halogen, N₃, NO₂, NCS, CF₃, CHO, OAc, OCH₃, OC₂H₅, CH₂OH, CH₂CH₂OH, CH₂CH₂CH₂OH, CN, C(=O)CH₃, COOH, COOCH₃, COOC₂H₅, COOCH(CH₃)₂, NHCOCH₃, SCH₃, SC₂H₅, NHCH₃, CH₂NH₂, CH₃, C₂H₅, C₃H₇, C₂H₃, ethynyl, alkoxy, alkylmercapto, alkylamino, dialkylamino, alkylsulfinyl, alkylsulfonyl or and methylene dioxy.

11. (currently amended) A pharmaceutical preparation comprising a therapeutically effective amount of at least one compound of formula I below, and physiologically acceptable salts thereof:

wherein,

the "A" ring atoms of compound formula I comprise carbon and 0 to 2 nitrogen heteroatoms;

Ar is an aromatic ring, an aromatic ring comprising at least one substituent group,

a heteroaromatic ring, a heteroaromatic ring comprising 1 to 5 substituent groups, a heterocyclic ring or a heterocyclic ring comprising at least one substituent group;

R comprises is selected from H, OH, OCH₃, alkoxy, OCH₂CH₂OH, alcohol, NH₂, PO₃H, OPO₃H, OSO₃H, halogen, C(halogen)₃, SE₁, OE₁ or and NE₁E₂,

 E_1 and E_2 are each independently H or alkyl;

R' comprises <u>is selected from</u> H₇ OH, alkoxy, OCH₂CH₂OH, alcohol, NH₂, PO₃H, OPO₃H, OSO₃H, halogen, C(halogen)₃, SE₁, OE₁ of <u>and</u> NE₁E₂,

 E_1 and E_2 are each independently H or alkyl;

R"[[,]] R"" and R"" each independently comprises is Y-D₁-D₂-T₂, H, halogen, alkyl, alkoxy or a substituent group,

Y is optionally present and if present comprises is selected from O, S, NH, N-alkyl, C=CH, C≡C, CH₂, CH(CH₃), C(CH₃)₂, a carbocyclic ring having 4 to 6 ring members or and a heterocyclic ring having 4 to 6 ring members with 1 or 2 heteroatoms,

 D_1 is optionally present and if present comprises is alkyl,

D₂ comprises is selected from H₇ alkyl, NH, N-alkyl, O-alkyl, S-alkyl, a carbocyclic ring, a bicyclic ring, a tricyclic ring, an aromatic ring or and a heteroaromatic ring,

 T_2 is optionally present and if present comprises is selected from an aromatic ring, a substituted aromatic ring, a heteroaromatic ring, a substituted heteroaromatic ring, a heterocyclic ring, a substituted heterocyclic ring, H, OH, halogen, of and a substituent group;

R" and R"" are each independently selected from H, halogen, alkyl, alkoxy and a substituent group;

with the proviso that,

when Ar is 4-isopropyl pyridine or 4-isopropenyl pyridine, R" is hydrogen, and R"" is hydrogen, then R" can not be a straight or branched saturated alkyl having 1 to 20 carbon atoms;

when Ar is 4-isopropyl toluene or 4-isopropenyl toluene, and both R" and R" are hydrogen, R" can not be a straight or branched saturated alkyl having 1 to 20 carbon atoms;

when R" is $C(CH_3)_2(CH_2)_5CH_3$, R₂ and R₄ are methyl, then R' and R" can not be H, OH or OCH₃.

12. cancelled

13. (currently amended) The pharmaceutical preparation of claim 11, wherein:

R''' comprises is selected from H, halogen, C(halogen)₃, lower alkyl or and alkoxy;

R'''' comprises is selected from H, halogen, C(halogen)₃, lower alkyl or and alkoxy; and

R" comprises is -Y-D₁-D₂-T₂,

Y comprises Y is optionally present and if present comprises is selected from O, S, NH, N-alkyl, C=CH, C≡C, CH₂, CH(CH₃) CH(CH₃), C(CH₃)₂, a carbocyclic ring having 4 to 6 ring members or and a heterocyclic ring having 4 to 6 ring members with 1 or 2 heteroatoms,

D₁ is optionally present and if present comprises is alkyl,

D₂ comprises is selected from H, an alkyl, NH, N-alkyl, O-alkyl, S-alkyl, a carbocyclic ring, a bicyclic ring, a tricyclic ring, an aromatic ring or and a heteroaromatic ring,

 T_2 is optionally present and if present comprises is selected from an aromatic ring, a heteroaromatic ring, a heterocyclic ring, H, OH, halogen or and a substituent group.

14. (currently amended) A method of stimulating a cannabinoid receptor in an

individual or animal comprising administering to the individual or animal a therapeutically effective amount of a therapeutically effective amount of at least one compound of formula I below, and physiologically acceptable salts thereof:

wherein,

the "A" ring atoms of compound formula I comprise carbon and 0 to 2 nitrogen heteroatoms;

Ar is an aromatic ring, an aromatic ring comprising at least one substituent group, a heteroaromatic ring, a heteroaromatic ring comprising 1 to 5 substituent groups, a heterocyclic ring or a heterocyclic ring comprising at least one substituent group;

R comprises is selected from H, OH, OCH₃, alkoxy, OCH₂CH₂OH, alcohol, NH₂, PO₃H, OPO₃H, OSO₃H, halogen, C(halogen)₃, SE₁, OE₁ or and NE₁E₂,

E₁ and E₂ are each independently H or alkyl;

R' comprises is selected from H₁, OH, alkoxy, OCH₂CH₂OH, alcohol, NH₂, PO₃H, OPO₃H, OSO₃H, halogen, C(halogen)₃, SE₁, OE₁ or and NE₁E₂,

E₁ and E₂ are each independently H or alkyl;

R"[[,]] R" and R" each independently comprises is Y-D₁-D₂-T₂, H, halogen, alkyl, alkoxy or a substituent group,

Y is optionally present and if present comprises is selected from O, S, NH, N-alkyl, C=CH, C=C, CH₂, $\frac{CH(CH_3)}{CH(CH_3)}$, $C(CH_3)_2$, a carbocyclic ring having 4 to 6 ring members of and a heterocyclic ring having 4 to 6 ring members with 1 or 2 heteroatoms,

D₁ is optionally present and if present comprises is alkyl,

D₂ comprises is selected from H, alkyl, NH, N-alkyl, O-alkyl, S-alkyl, a carbocyclic ring, a bicyclic ring, a tricyclic ring, an aromatic ring or and a heteroaromatic ring,

 T_2 is optionally present and if present comprises is selected from an aromatic ring, a substituted aromatic ring, a heteroaromatic ring, a substituted heteroaromatic ring, a heterocyclic ring, a substituted heterocyclic ring, H, OH, halogen, or and a substituent group;

R" and R"" are each independently selected from H, halogen, alkyl, alkoxy and a substituent group;

with the proviso that,

when Ar is 4-isopropyl pyridine or 4-isopropenyl pyridine, R" is hydrogen, and R"" is hydrogen, then R" can not be a straight or branched saturated alkyl having 1 to 20 carbon atoms;

when Ar is 4-isopropyl toluene or 4-isopropenyl toluene, and both R'" and R'" are hydrogen, R" can not be a straight or branched saturated alkyl having 1 to 20 carbon atoms;

when R" is $C(CH_3)_2(CH_2)_5CH_3$, R_2 and R_4 are methyl, then R' and R" can not be H, OH or OCH₃.

15. (currently amended) The method of claim 14 wherein:

R''' comprises is selected from H, halogen, C(halogen)₃, lower alkyl or and alkoxy;

R'''' comprises is selected from H, halogen, C(halogen)₃, lower alkyl or and alkoxy; and

R" comprises is -Y-D₁-D₂-T₂,

Y-comprises Y is optionally present and if present comprises is selected from O, S, NH, N-alkyl, C=CH, C \equiv C, CH₂, CH(CH₃) CH(CH₃), C(CH₃)₂, a carbocyclic ring having 4 to 6 ring members or and a heterocyclic ring having 4 to 6 ring members with 1 or 2 heteroatoms,

D₁ is optionally present and if present comprises is alkyl,

D₂ comprises is selected from H, an alkyl, NH, N-alkyl, O-alkyl, S-alkyl, a carbocyclic ring, a bicyclic ring, a tricyclic ring, an aromatic ring of and a heteroaromatic ring,

 T_2 is optionally present and if present comprises is selected from an aromatic ring, a heteroaromatic ring, a heterocyclic ring, H, OH, halogen of and a substituent group.

16. (currently amended) A method of selectively stimulating CB2 cannabinoid receptors in an individual or animal comprising administering to the individual or animal a therapeutically effective amount of at least one compound of formula I below, and physiologically acceptable salts thereof:

wherein,

the "A" ring atoms of compound formula I comprise carbon and 0 to 2 nitrogen heteroatoms;

Ar is an aromatic ring, an aromatic ring comprising at least one substituent group, a heteroaromatic ring, a heteroaromatic ring comprising 1 to 5 substituent groups, a heterocyclic ring or a heterocyclic ring comprising at least one substituent group;

R comprises is selected from H, OH, OCH₃, alkoxy, OCH₂CH₂OH, alcohol, NH₂, PO₃H, OPO₃H, OSO₃H, halogen, C(halogen)₃, SE₁, OE₁ or and NE₁E₂,

 E_1 and E_2 are each independently H or alkyl;

R' comprises is selected from H, OH, alkoxy, OCH2CH2OH, alcohol, NH2, PO3H,

OPO₃H, OSO₃H, halogen, C(halogen)₃, SE₁, OE₁ or and NE₁E₂,

E₁ and E₂ are each independently H or alkyl;

R"[[,]] R" and R"" each independently comprises is Y-D₁-D₂-T₂, H, halogen, alkyl, alkoxy or a substituent group,

Y is optionally present and if present comprises is selected from O, S, NH, N-alkyl, C=CH, C≡C, CH₂, CH(CH₃) CH(CH₃), C(CH₃)₂, a carbocyclic ring having 4 to 6 ring members of and a heterocyclic ring having 4 to 6 ring members with 1 or 2 heteroatoms,

D₁ is optionally present and if present comprises is alkyl,

D₂ comprises is selected from H₁ alkyl, NH, N-alkyl, O-alkyl, S-alkyl, a carbocyclic ring, a bicyclic ring, a tricyclic ring, an aromatic ring or and a heteroaromatic ring,

T₂ is optionally present and if present comprises <u>is selected from</u> an aromatic ring, a substituted aromatic ring, a heteroaromatic ring, a substituted heteroaromatic ring, a heterocyclic ring, a substituted heterocyclic ring, H, OH, halogen, er <u>and</u> a substituent group;

R''' and R'''' are each independently selected from H, halogen, alkyl, alkoxy and a substituent group;

with the proviso that,

when Ar is 4-isopropyl pyridine or 4-isopropenyl pyridine, R" is hydrogen, and R"" is hydrogen, then R" can not be a straight or branched saturated alkyl having 1 to 20 carbon atoms;

when Ar is 4-isopropyl toluene or 4-isopropenyl toluene, and both R" and R" are hydrogen, R" can not be a straight or branched saturated alkyl having 1 to 20 carbon atoms;

when R" is $C(CH_3)_2(CH_2)_5CH_3$, R₂ and R₄ are methyl, then R' and R" can not be H, OH or OCH₃.

17. (currently amended) The method of claim 16, wherein:

R''' comprises is selected from H, halogen, C(halogen)₃, lower alkyl or and alkoxy;

R'''' comprises is selected from H, halogen, C(halogen)₃, lower alkyl or and alkoxy; and

R" comprises is -Y-D₁-D₂-T₂,

Y-comprises Y is optionally present and if present comprises is selected from O, S, NH, N-alkyl, C=CH, C=C, CH₂, CH(CH₃) CH(CH₃), C(CH₃)₂, a carbocyclic ring having 4 to 6 ring members or and a heterocyclic ring having 4 to 6 ring members with 1 or 2 heteroatoms,

D₁ is optionally present and if present comprises is alkyl,

D₂ comprises is selected from H, an alkyl, NH, N-alkyl, O-alkyl, S-alkyl, a carbocyclic ring, a bicyclic ring, a tricyclic ring, an aromatic ring of and a heteroaromatic ring,

 T_2 is optionally present and if present comprises is selected from an aromatic ring, a heteroaromatic ring, a heterocyclic ring, H, OH, halogen or and a substituent group.

18. (currently amended) A method of treating a condition comprising administering to an individual or animal having the condition a therapeutically effective amount of at least one compound of formula I below, and physiologically acceptable salts thereof:

wherein,

the "A" ring atoms of compound formula I comprise carbon and 0 to 2 nitrogen heteroatoms;

Ar is an aromatic ring, an aromatic ring comprising at least one substituent group,

a heteroaromatic ring, a heteroaromatic ring comprising 1 to 5 substituent groups, a heterocyclic ring or a heterocyclic ring comprising at least one substituent group;

R comprises is selected from H, OH, OCH₃, alkoxy, OCH₂CH₂OH, alcohol, NH₂, PO₃H, OPO₃H, OSO₃H, halogen, C(halogen)₃, SE₁, OE₁ or and NE₁E₂,

 E_1 and E_2 are each independently H or alkyl;

R' comprises <u>is selected from</u> H, OH, alkoxy, OCH₂CH₂OH, alcohol, NH₂, PO₃H, OPO₃H, OSO₃H, halogen, C(halogen)₃, SE₁, OE₁ er <u>and</u> NE₁E₂,

 E_1 and E_2 are each independently H or alkyl;

R"[[,]] R" and R"" each independently comprises is Y-D₁-D₂-T₂, H, halogen, alkyl, alkoxy or a substituent group,

Y is optionally present and if present comprises is selected from O, S, NH, N-alkyl, C=CH, C=C, CH₂, $\frac{CH(CH_3)}{CH(CH_3)}$, $C(CH_3)_2$, a carbocyclic ring having 4 to 6 ring members or and a heterocyclic ring having 4 to 6 ring members with 1 or 2 heteroatoms,

D₁ is optionally present and if present comprises is alkyl,

D₂ comprises is selected from H, alkyl, NH, N-alkyl, O-alkyl, S-alkyl, a carbocyclic ring, a bicyclic ring, a tricyclic ring, an aromatic ring or and a heteroaromatic ring,

T₂ is optionally present and if present comprises <u>is selected from</u> an aromatic ring, a substituted aromatic ring, a heteroaromatic ring, a substituted heteroaromatic ring, a heterocyclic ring, a substituted heterocyclic ring, H, OH, halogen, or <u>and</u> a substituent group;

R" and R" are each independently selected from H, halogen, alkyl, alkoxy and a substituent group,

with the proviso that,

when Ar is 4-isopropyl pyridine or 4-isopropenyl pyridine, R" is hydrogen, and R"" is hydrogen, then R" can not be a straight or branched saturated alkyl having 1 to 20 carbon atoms;

when Ar is 4-isopropyl toluene or 4-isopropenyl toluene, and both R" and R" are hydrogen, R" can not be a straight or branched saturated alkyl having 1 to 20 carbon atoms;

when R" is $C(CH_3)_2(CH_2)_5CH_3$, R₂ and R₄ are methyl, then R' and R" can not be H, OH or OCH₃.

19. (currently amended) The method of claim 18, wherein:

R" comprises is selected from H, halogen, C(halogen)₃, lower alkyl or and alkoxy;

R'''' comprises is selected from H, halogen, C(halogen)₃, lower alkyl or and alkoxy; and

R" comprises is -Y-D₁-D₂-T₂,

Y comprises Y is optionally present and if present comprises is selected from O, S, NH, N-alkyl, C=CH, C=C, CH₂, CH(CH₃) CH(CH₃), C(CH₃)₂, a carbocyclic ring having 4 to 6 ring members or and a heterocyclic ring having 4 to 6 ring members with 1 or 2 heteroatoms,

D₁ is optionally present and if present comprises is alkyl,

 D_2 comprises is selected from H_7 an alkyl, NH, N-alkyl, O-alkyl, S-alkyl, a carbocyclic ring, a bicyclic ring, a tricyclic ring, an aromatic ring of and a heteroaromatic ring,

 T_2 is optionally present and if present comprises is selected from an aromatic ring, a heteroaromatic ring, a heterocyclic ring, H, OH, halogen of and a substituent group.

20. (currently amended) A method of providing a physiological response in an individual or animal comprising administering to the individual or animal a therapeutically effective amount of at least one compound of formula I below, and

physiologically acceptable salts thereof:

wherein,

the "A" ring atoms of compound formula I comprise carbon and 0 to 2 nitrogen heteroatoms;

Ar is an aromatic ring, an aromatic ring comprising at least one substituent group, a heteroaromatic ring, a heteroaromatic ring comprising 1 to 5 substituent groups, a heterocyclic ring or a heterocyclic ring comprising at least one substituent group;

R comprises is selected from H, OH, OCH₃, alkoxy, OCH₂CH₂OH, alcohol, NH₂, PO₃H, OPO₃H, OSO₃H, halogen, C(halogen)₃, SE₁, OE₁ or and NE₁E₂,

E₁ and E₂ are each independently H or alkyl;

R' comprises is selected from H₁, OH, alkoxy, OCH₂CH₂OH, alcohol, NH₂, PO₃H, OPO₃H, OSO₃H, halogen, C(halogen)₃, SE₁, OE₁ or and NE₁E₂,

 E_1 and E_2 are each independently H or alkyl;

R"[[,]] R" and R"" each independently comprises is Y-D₁-D₂-T₂, H, halogen, alkyl, alkoxy or a substituent group,

Y is optionally present and if present comprises is selected from O, S, NH, N-alkyl, C=CH, C≡C, CH₂, CH(CH₃) CH(CH₃), C(CH₃)₂, a carbocyclic ring having 4 to 6 ring members of and a heterocyclic ring having 4 to 6 ring members with 1 or 2 heteroatoms.

D₁ is optionally present and if present comprises is alkyl,

D₂ comprises is selected from H, alkyl, NH, N-alkyl, O-alkyl, S-alkyl, a carbocyclic

ring, a bicyclic ring, a tricyclic ring, an aromatic ring or and a heteroaromatic ring,

T₂ is optionally present and if present comprises <u>is selected from</u> an aromatic ring, a substituted aromatic ring, a heteroaromatic ring, a substituted heteroaromatic ring, a heterocyclic ring, a substituted heterocyclic ring, H, OH, halogen, of <u>and</u> a substituent group;

R''' and R'''' are each independently selected from H, halogen, alkyl, alkoxy and a substituent group,

with the proviso that,

when Ar is 4-isopropyl pyridine or 4-isopropenyl pyridine, R" is hydrogen, and R" is hydrogen, then R" can not be a straight or branched saturated alkyl having 1 to 20 carbon atoms:

when Ar is 4-isopropyl toluene or 4-isopropenyl toluene, and both R'" and R'" are hydrogen, R" can not be a straight or branched saturated alkyl having 1 to 20 carbon atoms;

when R" is $C(CH_3)_2(CH_2)_5CH_3$, R₂ and R₄ are methyl, then R' and R" can not be H, OH or OCH_3 .

21. (currently amended) The method of claim 20, wherein:

R''' comprises is selected from H, halogen, C(halogen)₃, lower alkyl of and alkoxy;

R'''' comprises is selected from H, halogen, C(halogen)₃, lower alkyl or and alkoxy; and

R" comprises is -Y-D₁-D₂-T₂,

Y comprises Y is optionally present and if present comprises is selected from O, S, NH, N-alkyl, C=CH, C≡C, CH₂, CH(CH₃) CH(CH₃), C(CH₃)₂, a carbocyclic ring having 4 to 6 ring members or and a heterocyclic ring having 4 to 6 ring members with 1 or 2 heteroatoms,

 D_1 is optionally present and if present comprises is alkyl,

D₂ comprises is selected from H, an alkyl, NH, N-alkyl, O-alkyl, S-alkyl, a carbocyclic ring, a bicyclic ring, a tricyclic ring, an aromatic ring or and a

heteroaromatic ring,

 T_2 is optionally present and if present comprises is selected from an aromatic ring, a heteroaromatic ring, a heterocyclic ring, H, OH, halogen or and a substituent group.

22. (currently amended) A method of treating a condition selected from central and peripheral pain, neuropathy, neurodegenerative diseases including multiple sclerosis, Parkinson's disease, Huntington's chorea, Alzheimer's disease; mental disorders such as schizophrenia and depression, endotoxic shock, hypotensive shock; or of modulating appetite; or of modulating the immune system; or of reducing fertility; or of treating diseases associated with motor function such as Tourette's syndrome; or of treating inflammation; or of providing neuroprotection; or of suppressing memory; or of producing peripheral vasodilation; or of treating epilepsy, glaucoma, nausea associated with cancer chemotherapy or nausea associated with Aids wasting syndrome comprising administering to an individual or animal having the condition a therapeutically effective amount of at least one compound at least one compound of formula I below, and physiologically acceptable salts thereof:

wherein,

the "A" ring atoms of compound formula I comprise carbon and 0 to 2 nitrogen heteroatoms;

Ar is an aromatic ring, an aromatic ring comprising at least one substituent group, a heteroaromatic ring, a heteroaromatic ring comprising 1 to 5 substituent groups, a heterocyclic ring or a heterocyclic ring comprising at least one substituent group;

PO₃H, OPO₃H, OSO₃H, halogen, C(halogen)₃, SE₁, OE₁ or and NE₁E₂,

E₁ and E₂ are each independently H or alkyl;

R' comprises <u>is selected from</u> H, OH, alkoxy, OCH₂CH₂OH, alcohol, NH₂, PO₃H, OPO₃H, OSO₃H, halogen, C(halogen)₃, SE₁, OE₁ or <u>and</u> NE₁E₂,

 E_1 and E_2 are each independently H or alkyl;

R"[[,]] R" and R"" each independently comprises <u>is</u> Y-D₁-D₂-T₂, H, halogen, alkyl, alkoxy or a substituent group,

Y is optionally present and if present comprises is selected from O, S, NH, N-alkyl, C=CH, C≡C, CH₂, CH(CH₃) CH(CH₃), C(CH₃)₂, a carbocyclic ring having 4 to 6 ring members or and a heterocyclic ring having 4 to 6 ring members with 1 or 2 heteroatoms,

D₁ is optionally present and if present comprises is alkyl,

D₂ comprises is selected from H, alkyl, NH, N-alkyl, O-alkyl, S-alkyl, a carbocyclic ring, a bicyclic ring, a tricyclic ring, an aromatic ring or and a heteroaromatic ring,

T₂ is optionally present and if present comprises <u>is selected from</u> an aromatic ring, a substituted aromatic ring, a heteroaromatic ring, a substituted heteroaromatic ring, a heterocyclic ring, a substituted heterocyclic ring, H, OH, halogen, or <u>and</u> a substituent group;

R''' and R'''' are each independently selected from H, halogen, alkyl, alkoxy and a substituent group,

with the proviso that,

when Ar is 4-isopropyl pyridine or 4-isopropenyl pyridine, R" is hydrogen, and R"" is hydrogen, then R" can not be a straight or branched saturated alkyl having 1 to 20 carbon atoms;

when Ar is 4-isopropyl toluene or 4-isopropenyl toluene, and both R'" and R'" are hydrogen, R" can not be a straight or branched saturated alkyl having 1 to 20 carbon atoms;

when R" is $C(CH_3)_2(CH_2)_5CH_3$, R₂ and R₄ are methyl, then R' and R" can not be H, OH or OCH₃.

23. (currently amended) The method of claim 22, wherein:

R''' comprises is selected from H, halogen, C(halogen)₃, lower alkyl or and alkoxy;

R'''' comprises is selected from H, halogen, C(halogen)₃, lower alkyl or and alkoxy; and

R" comprises is -Y-D₁-D₂-T₂,

Y comprises Y is optionally present and if present comprises is selected from O, S, NH, N-alkyl, C=CH, C≡C, CH₂, CH(CH₃) CH(CH₃), C(CH₃)₂, a carbocyclic ring having 4 to 6 ring members or and a heterocyclic ring having 4 to 6 ring members with 1 or 2 heteroatoms,

D₁ is optionally present and if present comprises is alkyl,

 D_2 comprises is selected from H, an alkyl, NH, N-alkyl, O-alkyl, S-alkyl, a carbocyclic ring, a bicyclic ring, a tricyclic ring, an aromatic ring or and a heteroaromatic ring,

 T_2 is optionally present and if present comprises is selected from an aromatic ring, a heteroaromatic ring, a heterocyclic ring, H, OH, halogen or and a substituent group.